

CFISD Advanced Placement Biology

Scope and Sequence 2024-2025

Course Description:

Biology AP is a college preparatory course designed to extend the understanding of biology concepts. Major emphasis is placed on the latest theories and concepts dealing with molecular biology, biochemistry, cellular processes, human genetics, and bioethics. Other topics include plant and animal taxonomy, ecology, and evolution. The course is also heavily lab-oriented to familiarize the student with some of the techniques and processes currently used in scientific research. This course is recommended for students planning to major in any area of science in college. Students who take the course will be prepared for the AP Biology exam.

College Board Advanced Placement Standards: [AP Biology](#)

Instructional Units	Days**	Start Dates	End Dates
First Semester	81	8/19/2024	12/20/2024
1st Grading Period (8/19/24 - 10/18/24)			
Unit 1: Chemistry of Life	14	8/19/2024	9/6/2024
Unit 2: Cell Structure and Function	14	9/9/2024	9/26/2024
Unit 3: Cellular Energies	15	9/27/2024	10/18/2024
2nd Grading Period (10/21/24 - 12/20/24)			
Unit 4: Cell Communication and Cell Cycle	18	10/21/2024	11/15/2024
Unit 5: Heredity	15	11/18/2024	12/13/2024
Review & Final Exams	5	12/16/2024	12/20/2024
Second Semester	92	1/7/2025	5/29/2025
3rd Grading Period (1/7/25 - 3/7/25)			
Unit 6: Gene Expression and Regulation	21	1/7/2025	2/5/2025
Unit 7: Natural Selection	20	2/6/2025	3/7/2025
4th Grading Period (3/17/25 - 5/29/25)			
Unit 8: Ecology	20	3/17/2025	4/11/2025
Unit 9: AP Test Review and Test	14	4/14/2025	5/5/2025
Unit 10: Post-AP Projects and Research	12	5/6/2025	5/21/2025
Review & Final Exams	5	5/22/2025	5/29/2025

** The length of each unit is a specific number of days, but it is understood that there is a range of +/- two days. The purpose of the flexibility is meant to allow teachers the opportunity to plan for the needs of their students and to accommodate re-teaching or review when necessary. If pre-assessment indicates student mastery could be obtained in a fewer number of days, the additional time could be used for extension or carried into the next unit.

Instructional Materials:

Campbell Biology – Twelfth AP Ed.

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